

# TRBOmonitor LTE

## 24/7/365 Cloud-Based System Health Monitoring Service over Cellular

TRBOmonitor is a simple yet powerful service for proactive diagnostic that provides real-time monitoring of your MOTOTRBO radio network and sends alerts on critical conditions or when it needs attention. TRBOmonitor LTE is an all-inclusive solution with cellular service and drop-in system with LTE modem.

On single site conventional, IP Site Connect, Capacity Plus or Capacity Plus Multisite (LCP) systems:

- Critical alerts indicate that a repeater needs immediate attention
- Interference, out of range, repeater alarms and other warnings highlight underlying systems issues
- Busies, race conditions and other alerts suggest that a system upgrade may be required to add more capacity
- Temporary repeater timeouts or latencies point to multi-site backhaul issues.
- High VSWR indicate antenna problems and high temperatures may point to facilities conditions

### ON-PREMISE TURNKEY PC

Simplify deployments with the pre-configured and secure TRBOmonitor LTE system.

Optional I/O modules to detect environmental factors such as temperature, humidity, generator activity, motion, door open, etc. are also available.

### INSTANT DEPLOYMENTS

Ideal when wired Internet is not available or network access is heavily restricted.

### AUTOMATIC REPEATERS DETECTION

The client discovers and displays all the peers, including MNIS, RDAC and 3rd party applications. It detects each repeater's alias, firmware version, serial/model number and other information.

- Periodically monitor VSWR, TX power and temperatures and send alerts when limits are exceeded
- Remotely clear alarms, disable and reset the repeaters

### HOSTED SERVICE

No need to be concerned whether monitoring is active: our fault-tolerant redundant cloud servers and a permanent cellular data link ensure maximum uptime.

### YEARLY SUBSCRIPTION MODEL

Per system, not per site or repeater, all-inclusive plan:

- Turnkey hardware with built-in LTE data modem
- Cellular data plan
- Unlimited support and maintenance
- No setup fees



### NOTIFICATIONS

Receive short emails/SMS for:

- System monitoring, repeater, master/peer up or down
- Call failure conditions: busies, out of range, race conditions, etc.
- Repeater blocked for interference or CWID repeat
- 70+ RDAC repeater alarms.

All alerts and alarms can be individually enabled

### REAL-TIME LOGGING

Every event, including all voice/data calls are logged locally on the TRBOmonitor LTE system in both text and Excel files. RSSI, radio and destination private/group IDs are also reported for every over-the-air transmission.

### RAPID DEPLOYMENTS - No NAI licenses necessary!

1. Connect all repeaters to a switch
2. Connect the TRBOmonitor LTE PC to the same switch
3. Enter the master repeater IP address and port

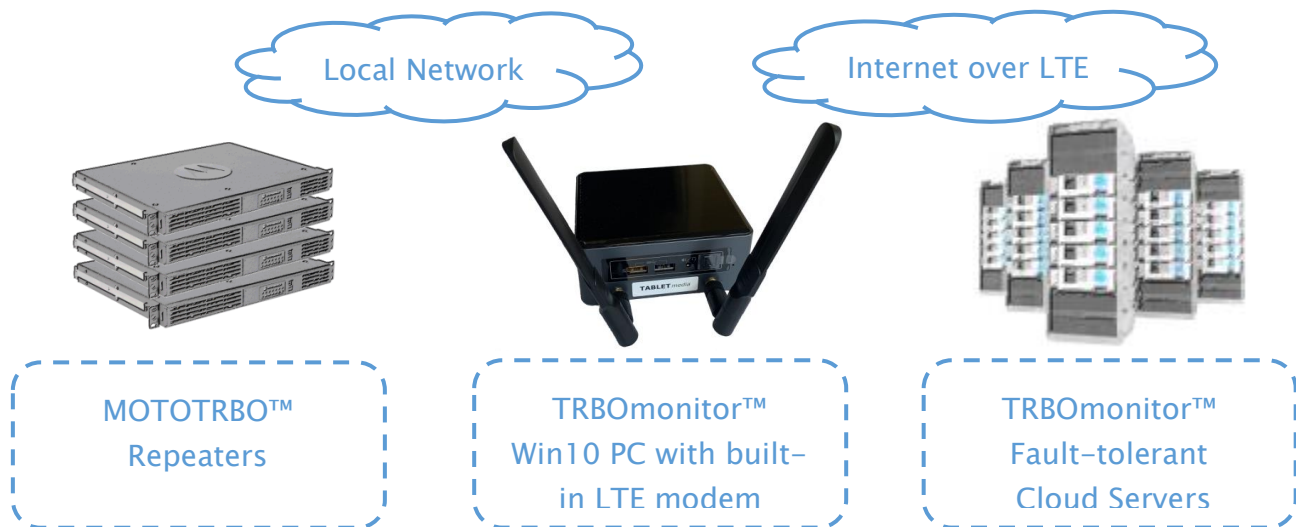
AUTHORIZED  
APPLICATION PROVIDER

MOTOTRBO

MOTOROLA SOLUTIONS

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## System Architecture: on site hardware, cellular internet and cloud host



| Selected features      | Details  |
|------------------------|--|
| Service notifications: | System up/down: internet, network, PC or application issue                                   |
| Peer notifications:    | Master and peer repeaters, MNIS and applications up/down                                     |
|                        | Call details: group/private, voice/data, length, source/target, repeaters, RSSI, etc.        |
|                        | Call failures: various busies, out of range, race conditions, etc.                           |
|                        | Repeater blocking: interference FCC type I and II, CWID/BSI repeat                           |
|                        | Repeater alarms: PA, power, battery, VSWR, hardware, etc. (over 70)                          |
|                        | Alerts when VSWR, TX power, PA and modem temperatures and jitter exceed thresholds           |
| Logging (on premise):  | Local logging to text and CSV files of all calls, failures, repeater alarms and other events |
| Cloud Servers:         | Centralized logging of all failures, repeater alarms and other events                        |
|                        | Email notifications  |
| Other:                 | Secure and encrypted link to fault tolerant cloud servers                                    |

| Requirements       | Details   |
|--------------------|---|
| Turnkey LTE system | Connects to the master repeater Ethernet switch |
|                    | Cellular coverage                               |



### UNIQUE EXPERIENCE

Understanding the critical requirements of your business, we have grown by listening and appreciating your trust. We can only make great products if they need no support or, as needed, we are there to promptly help you. Since 2001 we have provided device manufacturers, dealers, and end-customers best-in-class prompt and hands-on support. All of our products are developed by us, right here in the USA. They are tightly integrated and modular to scale seamlessly and meet your requirements now and in the future.

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